

Amendments to the Claims:

This Listing of Claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims:

1-50 (Cancelled).

51. (Newly Added – See Old Claim 5) A method of forming a product, comprising:
providing a tip-and-die assembly having a tip, a die, first injector and a second injector,
wherein the tip-and-die assembly is a pressure-die assembly;
introducing a first non-molten material into the first injector;
introducing a second non-molten material into the second injector;
melting the first non-molten material into a first molten material inside the first injector;
melting the second non-molten material into a second molten material inside the second
injector;
injecting the first molten material out of the first injector around the tip;
injecting the second molten material out of the second injector around the tip;
discharging the first molten material from the tip through the die; and
discharging the second molten material from the tip through the die.

52. (Newly Added – See Old Claim 6) A method according to claim 51 wherein the
first and second injectors are reciprocating-screw type injectors.

53. (Newly Added – See Old Claim 11) A tip-and-die assembly, comprising:
a housing including a tip and a die;
an injector wherein the injector injects material around the tip and out through the die;
and
a diverting channel disposed in the housing, wherein the diverting channel includes a
valve for selectively diverting material flowing between the tip and the die.

54. (Newly Added – See Old Claim 12) A tip-and-die assembly according to claim 53
wherein one of the housing or tip revolves relatively around the other.

55. (Newly Added – See Old Claim 13) A tip-and-die assembly according to claim 53 wherein the die is a pressure die.

56. (Newly Added – See Old Claim 12) A tip-and-die assembly according to claim 53 wherein the injector is a reciprocating-screw type injector.

57. (Newly Added – See Old Claim 13) A tip-and-die assembly, comprising:
a housing including a tip and a die; and
an injector;
wherein the injector injects material around the tip and out through the die; and
wherein the die is a pressure die.

58. (Newly Added – See Old Claim 12) A tip-and-die assembly according to claim 57 wherein one of the housing or tip revolves relatively around the other.

59. (Newly Added – See Old Claim 14) A tip-and-die assembly according to claim 57 wherein the injector is a reciprocating-screw type injector.

60. (Newly Added – See Old Claim 18) A tip-and-die assembly, comprising:
a tip;
a die;
a first injector;
a second injector; and
a flow controller;
wherein the first injector injects material through the flow controller around the tip and through the die;
wherein the second injector injects material through the flow controller around the tip and through the die;
wherein the flow controller receives material injected out of the first injector and the second injector and blocks residual material coming out of the first injector when material is injected out of the second injector and blocks residual material coming out of the second injector when material is injected out of the first injector;
wherein the flow controller further includes a bleeding groove; and

wherein excess material from the first injector or the second injector is re-routed through the bleeding groove.

61. (Newly Added – See Old Claim 16) A tip-and-die assembly according to claim 60 wherein the first and second injectors are reciprocating-screw type injectors.

62. (Newly Added – See Old Claim 17) A tip-and-die assembly according to claim 60 wherein a shaft of the flow controller shaft is temperature controlled.

63. (Newly Added – See Old Claim 23) A method of forming a product, comprising:
providing a tip-and-die assembly having a housing, a tip disposed in the housing, a die disposed in the housing, a first injector and a second injector;
utilizing the first injector to inject a first material around the tip;
utilizing the second injector to inject a second material around the tip;
discharging the first and second material from the tip through the die; and
providing a diverting channel disposed in the housing, wherein the diverting channel selectively diverts material flowing between the tip and the die.

64. (Newly Added – See Old Claim 24) A method according to claim 63 wherein one of the housing or tip revolves relatively around the other.

65. (Newly Added – See Old Claim 25) A product forming method, comprising:
a tip-and-die assembly having a tip, a die, a first injector and a second injector;
the first injector being to inject a first material around the tip;
the second injector being to inject a second material around the tip; and
means for mixing the first flowable material and the second flowable material to form a mixed material; and
means for discharging the mixed material from the tip out through the die to form a product.

66. (Newly Added – See Old Claim 26) A method of forming a product, comprising:
providing a tip-and-die assembly having a tip, a die, a first injector, a second injector and a re-routing channel;

utilizing the first injector to push a first material around the tip and towards the die;
utilizing the second injector to push a second material around the tip and towards the die; and

re-routing part of the flowable material through the re-routing channel and thereby away from the die.

67. (Newly Added – See Old Claim 27) A method according to claim 66 wherein the first and second materials are different materials.

68. (Newly Added – See Old Claim 28) A method according to claim 66 wherein the first and second materials are different grades of the same material.

69. (Newly Added – See Old Claim 35) A product forming method, comprising:
providing a tip-and-die assembly having a tip, a die, a first injector and a second injector;
utilizing the first injector to inject a first material around the tip;
utilizing the second injector to inject a second material around the tip;
mixing the first flowable material and the second flowable material to form a mixed material;

discharging the mixed material from the tip out through the die to form a product; and
forming the product into a product, such product being selected to be at least one of a medical product, an electrical cable, hose pipe, compression fitting, heat shrinkable tube, artificial turf, fabric, or shoe lace.

70. (Newly Added – See Old Claim 36) A method of forming a product, comprising:
providing a tip-and-die assembly having a tip, a die, a first injector, a second injector and a re-routing channel;

utilizing the first injector to push a first material around the tip and towards the die;
utilizing the second injector to push a second material around the tip and towards the die;

re-routing part of the flowable material through the re-routing channel and thereby away from the die; and

forming the product into a product, such product being selected to be at least one of a medical product, an electrical cable, hose pipe, compression fitting, heat shrinkable tube, artificial turf, fabric, or shoe lace.

71. (Newly Added – See Old Claim 37) A method according to claim 70 wherein the first and second materials are different materials.

72. (Newly Added – See Old Claim 38) A method according to claim 70 wherein the first and second materials are different grades of the same material.